

**ALBERTA ENVIRONMENT
POLLUTION CONTROL DIVISION
1990
A YEAR IN REVIEW**

INTRODUCTION

Alberta was the first province in Canada to establish a Department of the Environment which was enacted in the Legislature in 1971. In 1988, the Pollution Control Division was reorganized within the department's Environmental Protection Services with the mandate, "To achieve the protection, improvement and wise use of the environment by providing firm but fair enforcement of the environmental legislation in a timely and consistent manner."

The Pollution Control Division of today's Alberta Environment has since been developing and acting upon policies and program initiatives toward the highest achievable standards for enforcement of existing and proposed environmental legislation in Alberta.

Invaluable field experience gained in the first years of operation demonstrated only too well the value of a team response to major incidents of pollution and the follow-up investigations.

INVESTIGATIONS BRANCH

Pollution Control Division is comprised of two cooperating units: the Investigations Branch and the Compliance Branch.

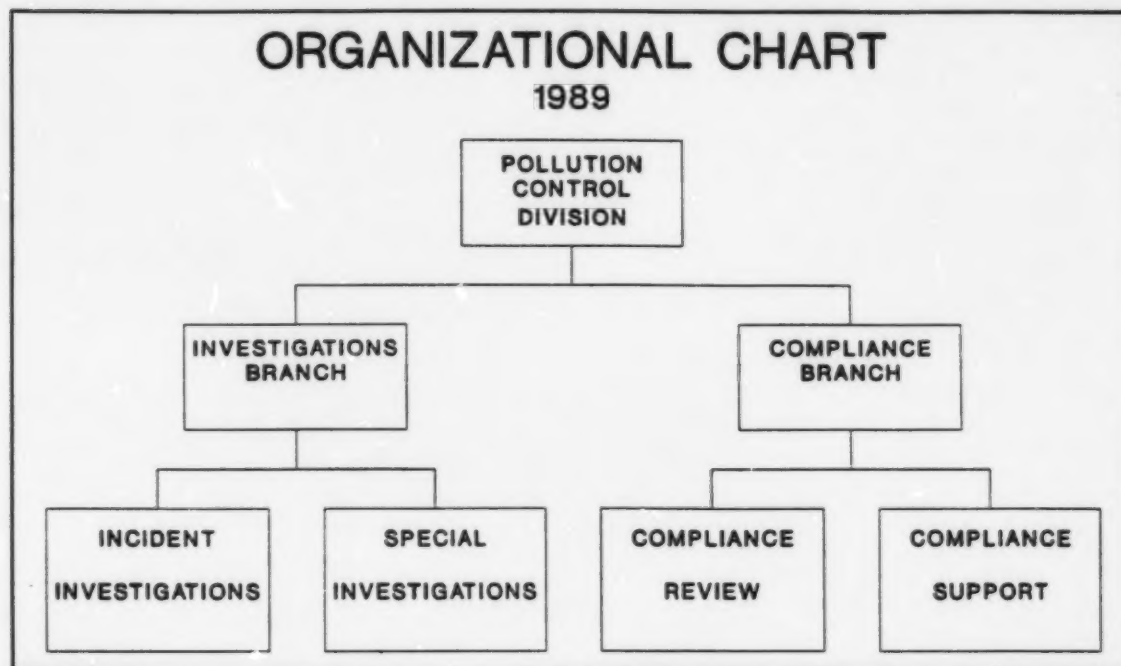


Figure 1

The Investigations Branch is responsible for reported pollution incidents and the resulting investigations, complaint investigations and emergency responses. Divided into sections, the Incident Investigations Section manages the ongoing investigation, complaint and emergency response matters, whereas the Special Investigations Section provides expertise in support of the investigations and further investigates industrial incident reports.

The goal statements of the Investigations Branch are:

- To respond to public complaints, environmental quality concerns and environmental emergencies.
- To conduct investigations of pollution sources through source identification, evidence gathering and evidence quality assurance.

To evaluate pollution incidents or environmental quality concerns and to carry out further steps in support of enforcement action.

All incident reports are handled by a specially trained response team of dispatchers

and investigators through the PERT (Pollution Emergency Response Team) Central headquarters in Edmonton, or by any of the other four regional offices located in Calgary, Red Deer, Whitecourt and Fort McMurray. PERT Central in Edmonton acts as the nerve centre, dispatching investigators and vital information on hazardous goods and environmental data to those investigators in the field.

In 1990, the Investigations Branch received and dealt with 8,429 reports from the public, industry and other environmental and health related agencies. The reports were concerning complaints, environmental incidents or potential infractions of environmental legislation. Incoming calls are categorized as file incidents, non-file incidents or industrial calls.

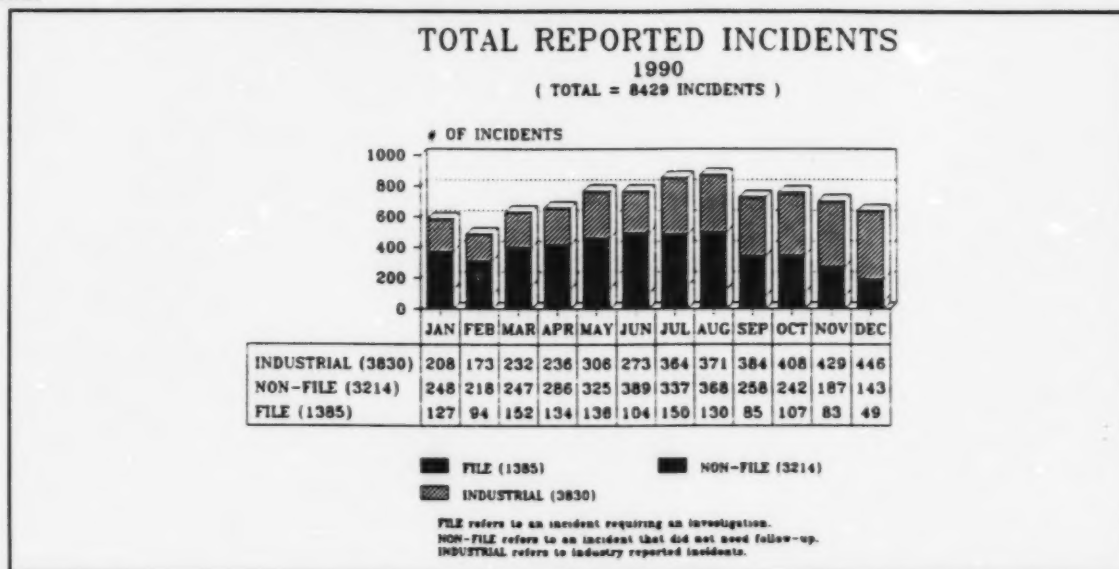


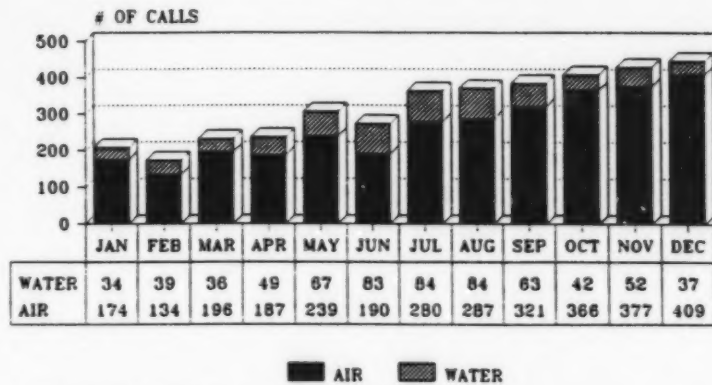
Figure 2

Industrial calls are reports made by Alberta industry based on a regulatory or licence requirement. There were 3,830 industrial incident reports received in 1990. Figure 3 demonstrates the monthly distribution of industrial calls.

File incidents are calls from the public or other agencies that require an on site investigation. Incidents may be commenced based on an individual call or on a collective basis where several reports of the same incident maybe received. In 1990, the Pollution Control Division received and investigated 1,385 incidents.

Non-File incidents are calls that are handled without an on site investigation. Regardless of the type of incident all calls are slotted into one of the 8 regions identified by the Pollution Control Division. Figure 4 shows this regional break down.

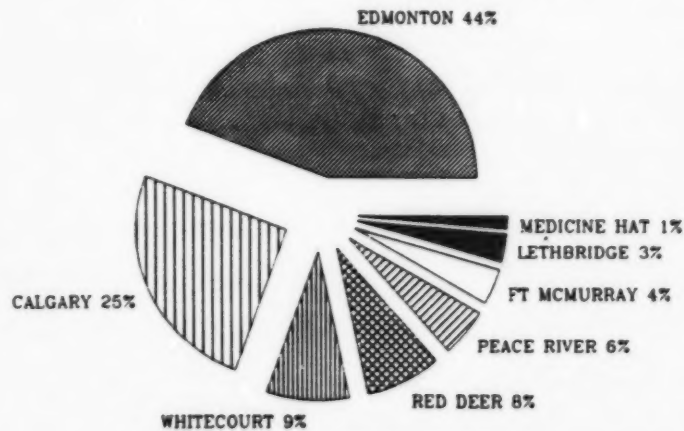
INDUSTRIAL INCIDENT REPORTS 1990 (TOTAL 3830)



* NOTE: Industrial incidents are reports made by industry based on a regulatory or licence requirement.

Figure 3

INVESTIGATION INCIDENTS BY REGION IN 1990 (TOTAL OF 4599 INCIDENTS)



Investigation incidents do not include industrial reports.

Figure 4

COMPLIANCE BRANCH

Investigation reports are submitted to the Compliance Branch for their review and assessment. Under the direction of the Director of Pollution Control, The Compliance Branch reviews files identified as possible enforcement issues and makes recommendations on enforcement actions.

The goal statements of the Compliance Branch are:

- To bring about and ensure compliance with environmental legislation, licences and permits through education, prevention and punitive actions.
- To evaluate the enforceability of permits and licences issued by Environmental Protection Services.
- To assure legislative authority to issue orders and to verify enforceability of the conditions of the orders.
- To conduct an ongoing review of existing legislation to ensure that the Pollution Control Division has the capability to achieve its mission statement.

The Compliance Branch is sectionalized into the Compliance Review Section and the Compliance Support Section. The Compliance Review Section is responsible for determining what enforcement actions the Director should consider, and the Compliance Support Section conducts the necessary legal searches to support the enforcement action which may include title searches, court registry and legal documentation preparation.

Once the decision has been made to proceed with enforcement action, it can take many forms from an administrative action to quasi-criminal action:

- Personal Identification Numbers (PIN) as issued under the Hazardous Chemicals Act may be revoked disallowing any further handling of hazardous chemicals.
- A Control Order may be issued under the name of the Director of Pollution Control. It is a formal document dictating what steps must be taken, within specific time frame, by the offending party to comply with the order. The control order is considered remedial in nature.
- A Stop Order may be issued under the name of the Minister of the Environment. Is a legal document that may issued when the environmental circumstances are of such a gravity to warrant this action or if a party fails to comply with a Control Order.

- A Court Order may be requested of the Court of Queen's Bench if a party fails to comply with a Stop Order.
- Prosecutions may proceed on evidence that an infraction has occurred under one of the nine Acts or the party is in violation of regulations or operating licence requirements. Such matters are referred to the Attorney General's Department. Tickets may be issued under certain Acts for minor infractions.

From the 8,429 incidents received by the Investigations Branch, 1,385 were classified as file incidents. The rest were industrial reports or incidents that did not require an on site investigation. From the files that were created there were 70 issues commenced. The 70 issues resulted in 22 Control Orders, 4 Stop Orders, 3 Tickets, 3 Court Orders, 3 PIN revocations, and started 14 prosecutions through the Attorney General's office. There were 6 convictions and 8 cases were carried over into 1991.

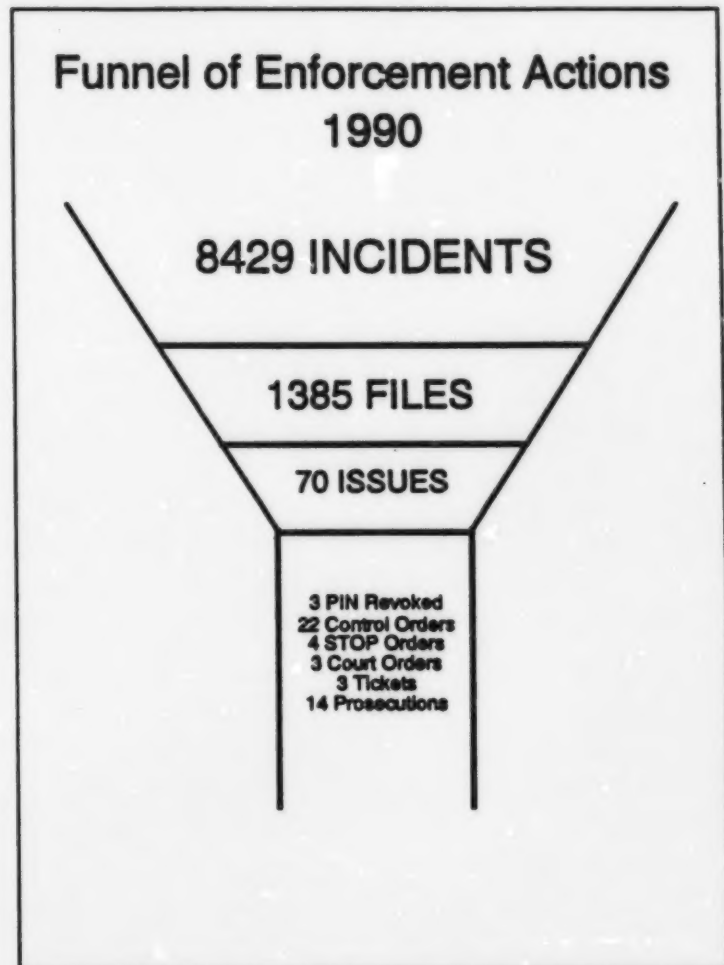


Figure 5

The following tables provide the specifics in regards to enforcement actions in 1990.

POLLUTION CONTROL DIVISION
PERSONAL IDENTIFICATION NUMBERS REVOKED 1990

COMPANY	DATE OF CANCELLATION	COMMENTS
Al-Tec Sanitation Systems Ltd	90/08/07	- generator, carrier & receiver PIN
Kedon Waste Services Ltd	90/08/08	- generator, carrier & receiver PIN
S.C.A. Waste Systems	90/12/27	- generator, carrier & receiver PIN

POLLUTION CONTROL DIVISION
CONTROL ORDERS 1990

COMPANY	ORDER TYPE	LOCATION	DATE OF ORDER	COMMENTS
Red Deer Lake Meat Processing Ltd.	WQCO	Calgary	90/03/08	- discharge from wastewater lagoons
Cargill Limited	WQCO	High River	90/03/08	- exceeding licence limits in wastewater discharges
Cargill Limited	ECO	High River	90/03/08	- emitting air contaminants having offensive odour
Beauvista Painting & Sandblasting Ltd.	ECO	Edmonton	90/03/13	- emitting air contaminants by sandblasting
Mid-Continental Bulk Systems Inc.	ECO	Calgary	90/03/16	- emitting air contaminant having offensive odour
Nacleod Feed Mill Ltd.	ECO	Fort Nacleod	90/03/16	- emitting particulates which adversely affect property
Cominco Ltd.	ECO	Calgary	90/03/20	- release of air contaminants having offensive odour
Weldwood of Canada Limited	ECO	Slave Lake	90/03/20	- release of air contaminants exceeding the maximum allowable
Petro-Canada Inc.	WQCO	Calgary	90/03/20	- release of process wastewater in excess of PH concentration limit
K4 Petroleum Ltd./ Petro-Canada Inc.	WQCO	Lac La Biche	90/04/02	- release of hydrocarbon contaminated surface water into the storm sewer and into the lake
Industrial Construction Canada Inc.	WQCO	Calgary	90/04/11	- storage of acid-lead batteries outside of enclosed structure - depositing lead-oxide water contaminant where it may enter a watercourse
Industrial Construction Canada Inc.	ECO	Calgary	90/04/11	- storing lead bearing materials outside a building - licence contravention - storing more lead-acid batteries than allowed by licence
Dontar Inc.	ECO	Lloydminster	90/04/12	- release of air contaminants having offensive odour
Petro-Canada Inc.	WQCO	Edmonton	90/09/14	- discharge of liquid effluent to the river exceeding the PH limiyd
Legal Alfalfa Products Ltd.	ECO	Legal	90/05/17	- release of waste material to the air and failure to reduce the emission
The Marble Market Ltd.	ECO	Edmonton	90/05/17	- release of air contaminant having offensive odour
Al-Tec Sanitation /386373 Alberta Ltd.	CCO	Medicine Hat	90/05/29	- storing hazardous wastes without a licence
All Cal Paving Ltd.	CCO	Calgary	90/06/12	- application of herbicide to a site bordered by plant life while providing paving services
S.C.A. Waste Systems /Parkland Farms Ltd.	CCO	Olds/Sylvan	90/07/10	- operating a facility for the handling, storage, use, disposal or transportation of a hazardous without a licence
Wayvel Farms Ltd.	WQCO	Cardston	90/07/24	- depositing a water contaminant in the form of liquid and solid hog manure wastes into surface waters
Suncor Inc.	ECO	Fort McMurray	90/08/27	- emitting air contaminants in concentrations exceeding the maximum permitted
Seven Point Properties Ltd.	CCO	Edmonton	90/11/08	- storing hazardous wastes without a licence

CODE: CCO - CHEMICAL CONTROL ORDER
WQCO - WATER QUALITY CONTROL ORDER

ECO - EMISSION CONTROL ORDER
SO - STOP ORDER

POLLUTION CONTROL DIVISION
STOP ORDERS 1990

COMPANY	ORDER TYPE	LOCATION	DATE OF ORDER	COMMENTS
Al-Tec Sanitation Systems Ltd./386373 Alberta Inc./Terry Allen	SO	Medicine Hat	90/08/21	- cease operation of the site as a facility for storage, treatment and disposal of hazardous wastes - remove all hazardous chemicals and hazardous wastes from the site
Al-Tec Sanitation Systems Ltd./Terry Allen	SO	Medicine	90/08/21	- cease operation of the second site as a facility for storage, treatment, and disposal of hazardous wastes - remove all hazardous wastes and hazardous chemicals from the site
S.C.A. Waste Systems Ltd./Parkland Farms Ltd./Alfred Cadman/Danny Cadman	SO	Olds	90/11/14	- cease operation of the site as a facility for the storage, treatment or disposal of hazardous waste - remove all hazardous wastes from the site
S.C.A. Waste Systems Ltd./Parkland Farms Ltd./Alfred Cadman/Danny Cadman	SO	Olds	90/11/14	- cease operation of the site as a facility for the storage, treatment or disposal of hazardous waste - remove all hazardous waste from the site
CODE: CCO - CHEMICAL CONTROL ORDER WQCO - WATER QUALITY CONTROL ORDER				
ECO - EMISSION CONTROL ORDER SO - STOP ORDER				

POLLUTION CONTROL DIVISION
COURT ORDERS 1990

COMPANY	ORDER TYPE	LOCATION	DATE OF ORDER	COMMENTS
Al-Tec Sanitation Systems Ltd	Court		90/02/28	- remove waste from rail cars
Al-Tec Sanitation Systems Ltd	Court	2 Iron Ave	90/10/03	- cease operation of facility and remove all waste.
Al-Tec Sanitation Systems Ltd	Court	Hwy. 41A	90/10/03	- cease operation of facility and remove all waste.

POLLUTION CONTROL DIVISION
PROSECUTIONS OR TICKETS 1990

COMPANY	DATE CHARGES LAID	DATE OF CONVICTION	LOCATION	TYPE OF OFFENCE AND STATUTE	DISPOSITION
The City of Lethbridge	90/04/26	90/08/16	Lethbridge	- exceed effluent release limit-licence contravention - exceed effluent release limit-licence contravention - exceed effluent release limit-licence contravention - exceed effluent release limit-licence contravention - exceed effluent release limit-licence contravention - fail to submit monthly reports-licence contravention - All counts under the Clean Water Act	Fined - \$ 500 Fined - \$ 500 Fined - \$ 500 Fined - \$ 500 Fined - \$ 500 Fined - \$ 25
Jasco Concrete and Construction Ltd. and John Spoletini	90/04/02	90/08/17	Calgary	- operate ready-mixed concrete plant without licence - under the Clean Air Act - Company received \$5,000 - Spolentini received \$1,000	Fined - \$ 5,000 Fined - \$ 1,000
Mayer Metals Ltd.	90/02/02	90/10/15	Edmonton	- failure to provide source emission survey report - licence contravention - Clean Air Act	Fined - \$ 8,000
Titan Foundry Ltd.	89/12/15	90/10/17	Edmonton	- emit excess air contaminants - emit excess particulates into atmosphere - Clean Air (General) Regulations	Fined - \$ 1,000 Fined - \$ 1,000
Baymag Mines Co. Limited	90/07/06	90/11/05	Carmore	- emit excess particulates into atmosphere - Clean Air Act	Fined - \$ 1,000
Thermo Design Engineering Ltd.	89/08/08	90/11/20	Edmonton	- operate a water facility without a licence - CWA - operate a plant without a licence - Clean Air Act - discharge of water contaminant - Clean Water (General) Regulations	Fined - \$ 7,500 Fined - \$ 7,500 Fined - \$ 250
Milestone Paving Corp.	90/06/12	90/11/26	St. Albert	- emit excess particulates into atmosphere - Clean Air (General) Regulations - failure to operate abatement equipment - Clean Air Act, Licence contravention	Fined - \$ 500 Fined - \$ 2,000
Redron Farms (Ron Smith)	90/09/05	90/10/03	Gibbons	- burning prohibited debris	Specified Penalty - \$50.
Winsong Farms (Jim Sapara)	90/09/10	90/10/09	Spruce Grove	- burning prohibited debris	Specified Penalty - \$50.
Aikenside Kennels(D. Mills)	90/10/30	90/12/03	Sherwood Park	- burning prohibited debris	Specified Penalty - \$50.

POLLUTION CONTROL DIVISION
PROSECUTIONS OR TICKETS
PENDING AS OF DECEMBER 31, 1990

COMPANY	DATE CHARGES LAID	DATE OF CONVICTION	LOCATION	TYPE OF OFFENCE AND STATUTE	DISPOSITION
Weldwood of Canada	90/12/20	Pending	Slave Lake	- fail to submit source emission survey report - licence contravention - Clean Air Act	
Domtar Construction Materials Inc.	90/12/12	Pending	Lloydminster	- construct a plant without permit - operate a plant without licence - alter a plant without authority - licence contravention - Clean Air Act	
Peter Huculak	90/09/10	Pending	Calmar	- apply pesticide without permit - use agricultural chemical for other than which it is represented - use of agricultural chemical that may cause injury - Agricultural Chemicals Act and Regulations	
Weldwood of Canada	90/12/17	Pending	Hinton	- release of air contaminant without approval - Clean Air Act	
Norwood Foundry Limited	90/12/12	Pending	Edmonton	- fail to submit source emission survey report - licence contravention - Clean Air Act	
Maple Leaf Metal Industries Ltd.	90/12/12	Pending	Edmonton	- operate plant without a licence - operate plant with abatement equipment not working - licence contravention	
Vanderwell Construction	90/01/23	Pending	Edmonton	- operate without a licence - Clean Air Act	
Bissell Bros.	90/01/23	Pending	Edmonton	- operate without a licence - Clean Air Act	

TRENDS

In the two short years the new Pollution Control Division has been in operation, the numbers of reports from all sectors have grown. While that may sound ominous, it really only reflects a growing concern for our environment whether it is the general public or industry reporting.

The public has proven to be the Division's most valuable partner in environmental protection by demanding that industry and government protect this most valuable resource, the land that supports all of us.

As information is collected over the next few years, we can expect to see some significant trends that are not readily apparent in the first two years figures, more comparison is needed.

What is obvious from the two years of data collected is that the numbers of incidents reported are growing along with public awareness and industry cooperation.

Figures 6 and 7 compare reports from 1989 and 1990.

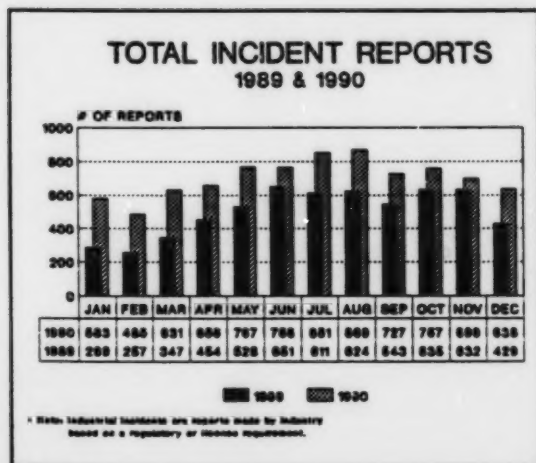


Figure 6

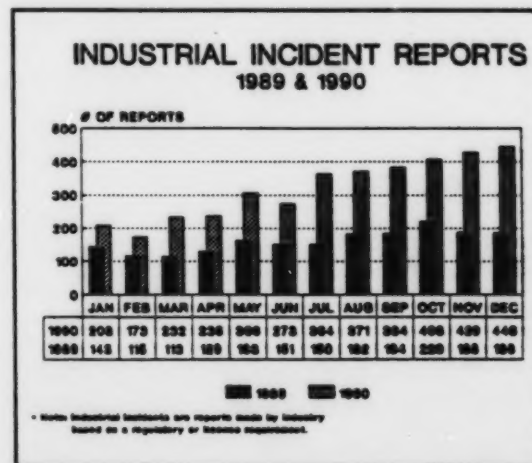


Figure 7

POLLUTION CONTROL DIVISION
PROSECUTIONS OR TICKETS 1991
FROM JANUARY 1 TO JUNE 12, 1991

COMPANY	DATE CHARGES LAID	DATE OF CONVICTION	LOCATION	TYPE OF OFFENCE AND STATUTE	DISPOSITION
Domtar Construction Materials Inc.	90/12/12	91/01/23	Lloydminster	- construct a plant without permit - operate a plant without a licence - Clean Air Act	Fined - \$ 5,000 Fined - \$ 5,000
Peter Huculak	90/09/10	91/01/16	Calmar	- apply a pesticide without a permit - use agricultural chemical for other than which it is represented. - Agricultural Chemicals Act and Regulations	Fined - \$ 200 Fined - \$ 200
Weldwood of Canada	90/12/17	91/03/14	Hinton	- release of air contaminant without approval - Clean Air Act	Fined - \$ 1,000
Norwood Foundry Limited	90/12/12	91/04/24	Edmonton	- fail to submit source emission survey report - licence contravention - Clean Air Act	Fined - \$ 1,400
Maple Leaf Metal Industries Ltd.	90/12/12	91/05/28	Edmonton	- burning prohibited debris - operate plant with abatement equipment not working - Clean Air Act and General Regulations	Fined - \$ 1,000 Fined - \$ 5,000
Daishowa Canada Co. Ltd	91/05/15	91/06/10	Peace River	- failure to report release of contaminants - failure to notify of release of contaminants - licence contravention - licence contravention - licence contravention - burning prohibited debris - Clean Water Act and Regulations - Clean Air Act and Regulations	Fined - \$21,000 Fined - \$19,500 Fined - \$12,500 Fined - \$ 8,500 Fined - \$12,500 Fined - \$ 1,000